

IN THE CLAIMS:

Amend claims 1, 4-7, 9-11 and 15-20, cancel claims 2, 3, 12 and 13¹ without prejudice or admission, and add new claims 21-26 as shown in the following listing of claims, which replaces all previous listings and versions of claims in this application.

1. (currently amended) An organism information detecting apparatus ~~which is an organism information detecting apparatus~~ for detecting organism information of a subject, the organism information detecting apparatus comprising:

~~organism information detecting means for detecting the organism information of the subject by being brought into contact with the subject for a previously determined~~ configured to come into contact with a subject for detecting organism information of the subject for a predetermined sampling time period, determining a motion state of the subject when the organism information is detected, and outputting an organism signal;

~~organism information data first~~ calculating means for calculating an organism information data by processing the organism signal to calculate organism information data, the detecting means determining a reliability degree of the organism information data based on whether the determined motion state of the subject is a previously determined motion state;

¹ Claims 8 and 14 were canceled in the second preliminary amendment filed August 18, 2006.

~~supplementary data~~ second calculating means for calculating an average value of the a variation amount of variation per time of a data obtained ~~constituted~~ by digitizing the organism signal, the average value being data as a ~~supplementary data of~~ to the organism information data, and the detecting means determining the motion state of the subject based on whether the supplementary data exceeds a previously determined threshold; and

~~data~~ storing means for ~~relating~~ storing the organism information data and the supplementary data ~~to be stored~~ such that the organism information data and the supplementary data are associated with one another.

2. - 3. (canceled).

4. (currently amended) ~~The~~ An organism information detecting apparatus according to ~~Claim 3, further~~ claim 1; further comprising:

informing means for informing the organism information data to the subject; and

informing data determining means for determining the organism information data informed by the informing means based on whether the determined reliability degree ~~determined by the reliability degree determining means~~ is a previously determined reliability degree.

5. (currently amended) ~~The~~ An organism information detecting apparatus according to ~~Claim 4, further~~ claim 4; further comprising:

power source controlling means for controlling ON/OFF of a power source of the ~~organism information~~ detecting means based on whether the determined reliability degree ~~determined by the reliability determining means~~ is the previously determined reliability degree.

6. (currently amended) ~~The~~ An organism information detecting apparatus according to ~~Claim 1, further~~ claim 1; further comprising:

communicating means for communicating information with an organism information processing server disposed at a remote location; and

schedule executing means for detecting the organism information based on schedule information ~~of measuring the organism information~~ from the organism information processing server received by the communicating means and corresponding to measured organism information;

wherein the communicating means transmits the organism information data and the supplementary data to the organism information processing server as a ~~data~~ result of result of executing the schedule executing means.

7. (currently amended) ~~The~~ An organism information detecting apparatus according to ~~Claim 1, wherein the organism information claim 1; wherein the~~ detecting apparatus equally divides the sampling time period into a plurality of pieces of block time periods, ~~defining periods and defines~~ the sampling time period at and after a second time by erasing an oldest one block time period in the sampling time period at a preceding time and adding one block time period for ~~measuring newly, and the supplementary data~~ a new measurement; and wherein the second calculating means calculates an average value of each of the block time periods of the variation amount per time of the data constituted by digitizing the organism signal and calculating an average value of the average values of the respective block time periods as the supplementary data in the sampling time period.

8. (canceled).

9. (currently amended) An organism information processing server ~~which is an organism information processing server~~ for communicating information with an organism ~~information~~ information detecting apparatus for detecting organism information of the subject for a predetermined sampling time period and outputting an organism signal, processing the organism signal to calculate organism information data, and calculating an average value of the amount of variation per time of data obtained by digitizing the organism signal, the average value being data supplementary to the organism information data, the

~~organism information processing server outputting an organism signal by detecting organism information of a subject by a previously determined sampling time period, calculating an organism information data by processing the organism signal and calculating an average value of a variation amount per time of a data constituted by digitizing the organism signal as a supplementary data of the organism information data and executing a previously determined processing operation to the information received from the organism information detecting apparatus, the organism information processing server comprising:~~

communicating means for receiving the organism information data and the supplementary data from the organism information detecting apparatus;

~~data storing means for relating the organism information data and the supplementary data to be stored~~ storing the organism information data and the supplementary data such that the organism information data and the supplementary data are associated with one another;

motion state determining means for determining a motion state of the ~~subject~~ subject when the organism information is detected based on whether the supplementary data exceeds a previously determined threshold; and

reliability degree determining means for determining a reliability degree of the organism information data ~~related to~~ associated with the supplementary data based on whether the

motion state determined by the motion state determining means is a previous determined motion state.

10. (currently amended) An organism information detecting system ~~which is an organism information detecting system~~ comprising: an organism information detecting apparatus for detecting organism information of a ~~subject, and~~ subject; and an organism information processing server for executing a previously determined processing operation to the information received from the organism information detecting apparatus;

wherein the organism information detecting apparatus ~~includes~~ comprises:

organism information detecting means that comes into contact with a subject for detecting organism information of the subject for a predetermined sampling time period and outputting an organism signal;

organism information data calculating means for processing the organism signal to calculate organism information data;

supplementary data calculating means for calculating an average value of the amount of variation per time of data obtained by digitizing the organism signal, the average value being data supplementary to the organism information data; and

~~organism information detecting means for detecting the organism information of the subject by being brought into contact with the subject by a previously determined sampling time period and outputting an organism signal;~~

~~organism information data calculating means for calculating an organism information data by processing the organism signal;~~

~~supplementary data calculating means for calculating an average value of a variation amount per time of a data constituted by digitizing the organism signal as a supplementary data of the organism information data; and~~

communicating means for relating associating to one another the organism information data and the supplementary data to be transmitted to the organism information processing server; and
wherein the organism information processing server includes:

communicating means for receiving the organism information data and the supplementary data from the organism information detecting apparatus;

data storing means for storing the organism information data and the supplementary data such that the organism information data and the supplementary data are associated with one another;

~~data storing means for relating the organism information data and the supplementary data to be stored;~~

motion state determining means for determining a motion state of the subject when the organism information is detected based on whether the supplementary data exceeds a previously determined threshold; and

reliability degree determining means for determining a reliability degree of the organic information data ~~related to~~ associated with the supplementary data based on whether the motion state determined by the motion state determining means is a previously determined motion state.

11. (currently amended) An organism information processing method ~~which is an organism information processing method used in~~ for an organism information detecting apparatus ~~for detecting that detects~~ organism information of a subject, the organism information processing method comprising:

a step of ~~detecting the organism information of the subject by being brought into contact with the subject by a previously determined sampling time period and outputting an organism signal~~ bringing the organism information detecting apparatus into contact with a subject to detect the organism information of the subject for a predetermined sampling time period, determine a motion state of the subject when the organism information is detected, and output an organism signal;

~~a step of calculating an organism information data by~~
~~processing the organism signal~~ processing the organism signal to
calculate organism information data, a reliability degree of the
organism information data being determined based on whether the
determined motion state of the subject is a previously determined
motion state;

~~a step of calculating an average value of a variation~~
~~amount per time of a data constituted by digitizing the organism~~
~~signal as a supplementary data of the organism information~~
~~data~~ calculating an average value of the amount of variation per
time of data obtained by digitizing the organism signal, the
average value being data supplementary to the organism
information data, and the motion state of the subject being
determined based on whether the supplementary data exceeds a
previously determined threshold; and

~~a step of relating the organism information data and~~
~~the supplementary data to be stored~~ storing the organism
information data and the supplementary data such that the
organism information data and the supplementary data are
associated with one another.

12. - 14. (canceled).

15. (currently amended) An organism information processing method ~~which is an organism information processing method of communicating information with an organism information detecting apparatus for detecting organism information of a subject by a previously determined sampling time period and outputting an organism signal, calculating an organism information data by processing the organism signal, and calculating an average value of a variation amount per time of a data constituted by digitizing the organism signal as a supplementary data of the organism information data and executing a previously determined processing to the information received from the organism information detecting apparatus, the organism information processing method comprising:~~

a step of communicating information with an organism information detecting apparatus that detects organism information of a subject for a predetermined sampling time period and outputs an organism signal, processes the organism signal to calculate organism information data, and calculates an average value of the amount of variation per time of data obtained by digitizing the organism signal, the average value being data supplementary to the organism information data;

a step of storing the organism information data and the supplementary data such that the organism information data and the supplementary data are associated with one another;

~~a step of relating the organism information data and the supplementary data received from the organism information detecting apparatus to be stored;~~

a step of determining a motion state of the subject when the organism information is detected based on whether the supplementary data exceeds a previously determined threshold; and

a step of determining a reliability degree of the organism information data ~~related to~~ associated with the supplementary data based on whether the motion state is a previously determined motion state.

16. (currently amended) An organism information processing method ~~which is an organism information processing method~~ used in an organism information detecting system comprising an organism information detecting apparatus for detecting organism information of a subject, and an organism information processing server for executing a previously determined processing operation to the information received from the organism information detecting apparatus;

wherein the organism information detecting apparatus executes a method comprising:

a step of bringing the organism information detecting apparatus into contact with the subject to detect the organism information of the subject for a predetermined sampling time period and to output an organism signal;

a step of processing the organism signal to calculate organism information data;

a step of calculating an average value of the amount of variation per time of data obtained by digitizing the organism signal, the average value being data supplementary to the organism information data;

and

a step of associating the organism information data and the supplementary data to one another for transmission to the information processing server; and

~~a step of detecting the organism information of the subject by being brought into contact with the subject by a previously determined sampling time period;~~

~~a step of calculating an organism information data by processing the organism signal;~~

~~a step of calculating an average value of a variation amount per time of a data constituted by digitizing the organism signal as a supplementary data of the organism information data;~~
and

~~a step of relating the organism information data and the supplementary data to be transmitted to the organism information processing server; and~~

wherein the organism information processing server executes a method comprising:

a step of storing the organism information data and the supplementary data received from the organism information detecting apparatus such that the organism information data and the supplementary data are associated with one another;

~~a step of relating the organism information data and the supplementary data received from the organism information detecting apparatus to be stored;~~

a step of determining a motion state of the subject when the organism information is detected based on whether the supplementary data exceeds a previously determined threshold; and

a step of determining a reliability degree of the organism information data ~~related to~~ associated with the supplementary data based on whether the motion state is a previously determined motion state.

17. (currently amended) A motion state determining method ~~which is a motion state determining method~~ of determining a motion state of a subject when organism information is detected in an organism information detecting apparatus comprising organism ~~apparatus~~ information detecting means that is brought into contact with the subject for detecting the organism information of the subject ~~by the organism information detecting means~~, the motion state determining method comprising:

a step of acquiring a data ~~constituted~~ by digitizing an organism signal during a previously determined sampling time period outputted by the organism information detecting means;

a step of calculating an average value of a variation amount per time of the data; and

a step of determining the motion state of the subject when the organism information is detected based on whether the average value of the variation amount exceeds a previously determined threshold.

18. (currently amended) A reliability degree determining method ~~which is a reliability degree determining method~~ for determining a reliability degree of organism information in an organism information detecting apparatus comprising organism information detecting means that is brought into contact with a subject for detecting the organism information of the subject ~~by the organism information detecting means~~, the reliability degree determining method comprising:

a step of acquiring a data ~~constituted~~ by digitizing an organism signal during a previously determined sampling time period outputted by the organism information detecting means;

a step of calculating an average value of a variation amount per time of the data;

a step of determining a motion state of the subject when the organism information is detected based on whether the average value of the variation amount exceeds a previously determined threshold; and

a step of determining a reliability of the organism information based on whether the motion state is a previously determined motion state.

19. (currently amended) A computer program product having instructions for causing ~~which is a program for making a~~ computer to realize a function of determining a motion state of a ~~subject by using a~~ subject utilizing digital data of an organism signal outputted by organism information detecting means of an organism information detecting apparatus ~~comprising the organism information detecting means for detecting~~ that detects organism information of the subject by being brought into contact with the subject and corresponding to the organism signal, the instructions causing ~~for making the computer realize to:~~

~~a function of making the computer~~ read the digital data;

~~a function of calculating~~ calculate an average value of a variation amount per time of the digital data; and

~~a function of determining~~ determine the motion state of the subject when the organism information is detected based on whether the average value of the variation amount exceeds a previously determined threshold.

20. (currently amended) A computer program product having instructions for causing ~~which is a program for making a~~ computer to realize a function of determining a reliability of organism information ~~by using a~~ of a subject utilizing digital data of an organism signal outputted by organism information detecting means of an organism information detecting apparatus ~~comprising the organism information detecting means for detecting~~ that detects the organism information of the subject by being brought into contact with the subject, the instructions causing the computer to ~~for making the computer realize:~~

~~a function of making the computer~~ read the digital data;

~~a function of calculating~~ calculate an average value of a variation amount per time of the digital data;

~~a function of determining~~ determine the motion state of the subject when the organism information is detected based on whether the average value of the variation amount exceeds a previously determined threshold; and

~~a function of determining~~ determine a reliability degree of the organism information based on whether the motion state is a previously determined motion state.

21. (new) An organism information detecting apparatus according to claim 1; wherein the organism information is a waveform of the subject's artery; and wherein the detecting means subjects digital data of a component of a pulse wave included in the organism signal of the sampling time period to a frequency

analysis and calculates a pulsation number as the organism information data.

22. (new) An organism information detecting apparatus according to claim 4; wherein the organism information is a waveform of the subject's artery; and wherein the detecting means subjects digital data of a component of a pulse wave included in the organism signal of the sampling time period to a frequency analysis and calculates a pulsation number as the organism information data.

23. (new) An organism information detecting apparatus according to claim 5; wherein the organism information is a waveform of the subject's artery; and wherein the detecting means subjects digital data of a component of a pulse wave included in the organism signal of the sampling time period to a frequency analysis and calculates a pulsation number as the organism information data.

24. (new) An organism information detecting apparatus according to claim 6; wherein the organism information is a waveform of the subject's artery; and wherein the detecting means subjects digital data of a component of a pulse wave included in the organism signal of the sampling time period to a frequency analysis and calculates a pulsation number as the organism information data.

25. (new) An organism information detecting apparatus according to claim 7; wherein the organism information is a waveform of the subject's artery; and wherein the detecting means subjects digital data of a component of a pulse wave included in the organism signal of the sampling time period to a frequency analysis and calculates a pulsation number as the organism information data.

26. (new) An organism information processing method according to claim 11; wherein the organism information is a waveform of the subject's artery; and wherein the step of calculating the organism information data comprises subjecting digital data of a component of a pulse wave included in the organism signal to a frequency analysis and calculating a pulsation number as organism information data.